



IFWO

RAW SEQUENCE LISTING

DATE: 07/29/2004

PATENT APPLICATION: US/10/820,155

TIME: 11:40:57

Input Set : A:\Sequence listing.ST25.txt

Output Set: N:\CRF4\07292004\J820155.raw

3 <110> APPLICANT: NatImmune A/S
 4 Weilguny, Dietmar
 5 Jensenius, Jens Christian
 6 Kongerslev, Leif
 7 Matthiesen, Finn
 9 <120> TITLE OF INVENTION: Treatment of SARS in individuals
 11 <130> FILE REFERENCE: P 774 US00
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/820,155
 14 <141> CURRENT FILING DATE: 2004-04-08
 16 <160> NUMBER OF SEQ ID NOS: 137
 18 <170> SOFTWARE: PatentIn version 3.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 652
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
 27 Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Thr
 28 1 5 10 15
 31 Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
 32 20 25 30
 35 Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
 36 35 40 45
 39 Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
 40 50 55 60
 43 Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
 44 65 70 75 80
 47 Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
 48 85 90 95
 51 Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
 52 100 105 110
 55 Gly Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
 56 115 120 125
 59 His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
 60 130 135 140
 63 Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Ser Arg Leu Pro Lys Trp
 64 145 150 155 160
 67 Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
 68 165 170 175
 71 Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
 72 180 185 190
 75 Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
 76 195 200 205
 79 Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala



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80      210      215      220
83 Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys
84 225      230      235      240
87 Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu
88      245      250      255
91 Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His
92      260      265      270
95 Gln Asp Cys Phe Glu Gly Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg
96      275      280      285
99 Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn
100      290      295      300
103 Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly
104 305      310      315      320
107 Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu
108      325      330      335
111 Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser
112      340      345      350
115 Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu
116      355      360      365
119 Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln
120      370      375      380
123 Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys
124 385      390      395      400
127 Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val
128      405      410      415
131 Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val
132      420      425      430
135 Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly
136      435      440      445
139 Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly
140      450      455      460
143 Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro
144 465      470      475      480
147 Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg
148      485      490      495
151 Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala
152      500      505      510
155 Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr
156      515      520      525
159 Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Pro Gly Val Trp
160      530      535      540
163 Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu
164 545      550      555      560
167 Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr
168      565      570      575
171 Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala
172      580      585      590
175 Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys
176      595      600      605

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179 Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Lys Pro Gln Asn Ala
180      610      615      620
183 Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
184 625      630      635      640
187 Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
188      645      650
191 <210> SEQ ID NO: 2
192 <211> LENGTH: 742
193 <212> TYPE: PRT
194 <213> ORGANISM: Mus musculus
196 <400> SEQUENCE: 2
198 Met Lys Asp Asp Phe Ala Glu Glu Glu Glu Val Gln Ser Phe Gly Tyr
199 1      5      10      15
202 Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn
203      20      25      30
206 Asn Trp Ala Leu Lys Phe Ser Ile Val Leu Leu Tyr Ile Leu Cys Ala
207      35      40      45
210 Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
211      50      55      60
214 Met Asp Asn Val Thr Asp Gly Met Glu Thr Ser His Gln Thr Tyr Asp
215 65      70      75      80
218 Asn Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
219      85      90      95
222 Ala Gly Lys Lys Ala Leu Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
223      100      105      110
226 Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Gln Glu Ile Thr Glu Lys
227      115      120      125
230 Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Asn Gly Asp
231      130      135      140
234 Ser Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Gln Asn Asn
235 145      150      155      160
238 Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
239      165      170      175
242 Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu
243      180      185      190
246 Gln Ser Gln Met Tyr Ser Gln Ser Val Val Ile Met Asn Leu Asn Asn
247      195      200      205
250 Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Ser Asn Leu Gln
251      210      215      220
254 Gln Ser Val Asp Asp Thr Ser Leu Ala Ile Gln Arg Ile Lys Asn Asp
255 225      230      235      240
258 Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
259      245      250      255
262 Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn
263      260      265      270
266 Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser
267      275      280      285
270 Gln Leu Ser Ser Phe Thr Gly Gln Met Asp Asn Ile Thr Thr Ile Ser
271      290      295      300

```

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```

274 Gln Ala Asn Glu Gln Ser Leu Lys Asp Leu Gln Asp Leu His Lys Asp
275 305 310 315 320
278 Thr Glu Asn Arg Thr Ala Val Lys Phe Ser Gln Leu Glu Glu Arg Phe
279 325 330 335
282 Gln Val Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr
283 340 345 350
286 Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Asp Val Arg
287 355 360 365
290 Thr Thr Cys Thr Asp Thr Leu Thr Arg His Thr Asp Asp Leu Thr Ser
291 370 375 380
294 Leu Asn Asn Thr Leu Val Asn Ile Arg Leu Asp Ser Ile Ser Leu Arg
295 385 390 395 400
298 Met Gln Gln Asp Met Met Arg Ser Lys Leu Asp Thr Glu Val Ala Asn
299 405 410 415
302 Leu Ser Val Val Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
303 420 425 430
306 Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
307 435 440 445
310 Gly Pro Lys Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly
311 450 455 460
314 Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro
315 465 470 475 480
318 Ala Gly Glu Arg Gly Thr Ile Gly Pro Val Gly Pro Pro Gly Glu Arg
319 485 490 495
322 Gly Ser Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
323 500 505 510
326 Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
327 515 520 525
330 Pro Gly Pro Pro Gly Lys Asp Gly Leu Pro Gly Pro Gln Gly Pro Pro
331 530 535 540
334 Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
335 545 550 555 560
338 Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
339 565 570 575
342 Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Met Glu Pro Leu
343 580 585 590
346 Ala Leu Gln Asn Glu Pro Thr Pro Ala Ser Glu Val Asn Gly Cys Pro
347 595 600 605
350 Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Leu Glu
351 610 615 620
354 Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser
355 625 630 635 640
358 His Leu Val Phe Ile Asn Ser Arg Glu Glu Gln Gln Trp Ile Lys Lys
359 645 650 655
362 His Thr Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu
363 660 665 670
366 Gln Glu Ser Glu Trp Lys Trp Leu Asp Gly Ser Pro Val Asp Tyr Lys
367 675 680 685
370 Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly Ser Gly His Gly Pro

```

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```

371      690      695      700
374 Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe
375 705      710      715      720
378 Gln Cys Asp Glu Ile Asn Asn Phe Ile Cys Glu Lys Glu Arg Glu Ala
379      725      730      735
382 Val Pro Ser Ser Ile Leu
383      740
386 <210> SEQ ID NO: 3
387 <211> LENGTH: 371
388 <212> TYPE: PRT
389 <213> ORGANISM: Bos taurus
391 <400> SEQUENCE: 3
393 Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
394 1      5      10      15
397 Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Leu Ala
398      20      25      30
401 Asn Gly Cys Thr Leu Val Val Cys Arg Pro Pro Glu Gly Gly Leu Pro
402      35      40      45
405 Gly Arg Asp Gly Gln Asp Gly Arg Glu Gly Pro Gln Gly Glu Lys Gly
406      50      55      60
409 Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Pro
410 65      70      75      80
413 Ala Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro
414      85      90      95
417 Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly
418      100      105      110
421 Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
422      115      120      125
425 Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Gly Met
426      130      135      140
429 Gly Ala Pro Gly Met Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly
430 145      150      155      160
433 Glu Arg Gly Ala Pro Gly Glu Leu Gly Ala Pro Gly Ser Ala Gly Val
434      165      170      175
437 Ala Gly Pro Ala Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
438      180      185      190
441 Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Arg Gly
442      195      200      205
445 Ala Lys Gly Glu Ser Gly Leu Ala Asp Val Asn Ala Leu Lys Gln Arg
446      210      215      220
449 Val Thr Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser
450 225      230      235      240
453 Arg Tyr Lys Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Lys
454      245      250      255
457 Lys Ile Phe Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Gln
458      260      265      270
461 Gln Leu Cys Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ala
462      275      280      285
465 Ala Glu Asn Glu Ala Val Ala Gln Leu Val Arg Ala Lys Asn Asn Asp

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/29/2004
PATENT APPLICATION: US/10/820,155 TIME: 11:40:59

Input Set : A:\Sequence listing.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; Xaa Pos. 7

Seq#:75; Xaa Pos. 7

Seq#:94; Xaa Pos. 91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106

Seq#:94; Xaa Pos. 107,108,109,110,111,112,113,114,115,116

VERIFICATION SUMMARY

DATE: 07/29/2004

PATENT APPLICATION: US/10/820,155

TIME: 11:40:59

Input Set : A:\Sequence listing.ST25.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:4011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0

L:9259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0

L:11454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:80

L:11458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:96

L:11462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:112